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BIS(AZOLYL)SULFONAMIDOACETAMIDES-SYNTHESIS AND BIOASSAY

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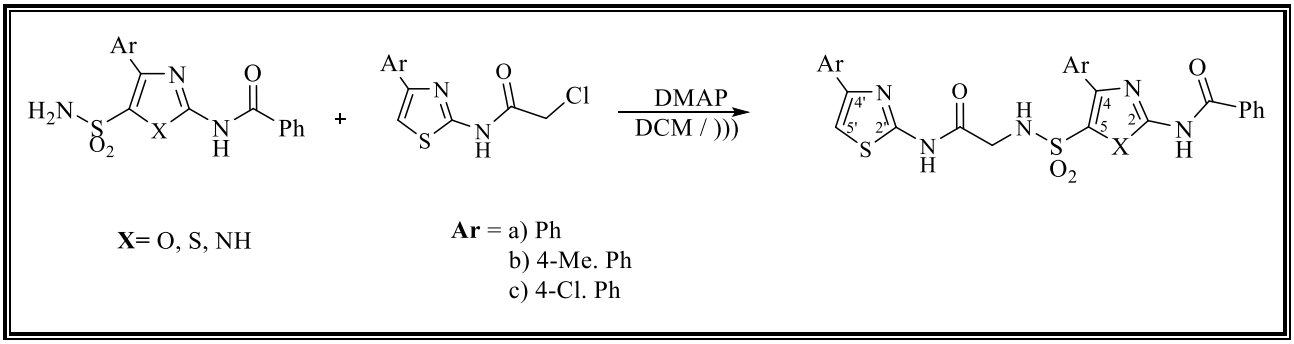

Abstract. Azole derivatives are valuable precursors in pharmacological arena. In fact oxazole, thiazole and imidazole containing scaffolds display a variety of biological activities such as antitumor, antibacterial, antiviral, antioxidant, anti-inflammatory and antifungal. Azoles are also prominant molecules in various biochemical and synthetic transformations. Based on the importance of these heteroaromatics and also our interest to link the heterocycle molecules with a variety of functional groups we have synthesized a new class of bis(azolyl)sulfonamido- acetamides from azolylsulfonylamines and azolylchloroacetamides in the presence of DMAP under ultrasonication and studied their antimicrobial activity. The results will be presented.